Index of Claims

| App | licatio | n/Co | ntrol | No. |
|-----|---------|------|-------|-----|

10/601,107

Examiner

Michael Cuff

Applicant(s)/Patent under Reexamination

BENCO ET AL.
Art Unit

3627

| √ | Rejected |
|----------|----------|
| | Allowed |

| 1 | (Through numeral) Cancelled |
|---|--------------------------------|
| + | Restricted |

| N | Non-Elected |
|---|--------------|
| ı | Interference |

| A | Appeal |
|---|----------|
| 0 | Objected |

| | | | | | | | J | | | |
|------------------|--|--|--|--------------|--|--|--------------|--|--|----------------|
| | | | | | | | | | | |
| Cla | | | | | Dat | <u>e</u> | _ | | | |
| Final | Original | 4/24/07 | | | | | | | , | |
| | 1 | 1 | | | T | T | | | Г | \Box |
| | 2 | 1 | | | T | T | | | | \vdash |
| | 3 | ${\dagger}{\dagger}$ | | | | T | | | | |
| | 4 | Π | | | | | | | | П |
| | 5 | П | | | Г | | | | | |
| | 1 2 3 4 5 6 7 | П | П | | | | | | | |
| | 7 | | | | | | | | | |
| | 8 | | | | | | | | | |
| | ø | Ш | | | | | | | | |
| | 10 | Щ | _ | <u> </u> | <u> </u> | | _ | <u> </u> | | |
| | 11 | Ц. | L | 匚 | <u> </u> | _ | <u> </u> | _ | 匚 | Ш |
| <u> </u> | 12 | Ц, | | _ | <u> </u> | Щ | L_ | <u> </u> | <u> </u> | |
| <u> </u> | 13 | Y | <u> </u> | <u> </u> | | _ | | <u> </u> | | Щ |
| | 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 | V | | | ļ | ļ | - | | ⊢ | Ш |
| | 15 | _ | _ | | | ┡ | _ | | | \blacksquare |
| | 16 | - | ļ | _ | | ├- | | <u> </u> | <u> </u> | Н |
| | 17 | — | - | ⊢ | | | ⊢ | _ | H | |
| <u> </u> | 10 | ⊢ | Ė | \vdash | | - | ⊢ | H | H | Н |
| | 20 | ⊢ | ⊢ | ⊢ | ⊢ | - | ⊢ | ├ | - | - |
| | 21 | ⊢ | H | - | | ┢ | ⊢ | ⊢ | \vdash | |
| | 22 | ├ | - | | | | - | - | | \vdash |
| | 23 | ╌ | ├ | | - | ⊢ | - | \vdash | | Н |
| | 24 | - | ┝ | | | | ┢ | \vdash | | H |
| | 25 | _ | \vdash | - | ┢ | | \vdash | | H | Н |
| | 26 | \vdash | 1 | _ | _ | _ | | _ | | П |
| | 27 | | | | | | | | | \neg |
| | 28 | ऻ | - | | _ | | | | | |
| | 29 | | | | | | | | | |
| | 30 31 | | | | | | | Ĺ | | |
| | 31 | | | | | | Ĺ | | | |
| | 32 | | | | | _ | | | | |
| igsquare | 33 34 35 | | <u> </u> | ┞ | <u> </u> | <u> </u> | <u> </u> | <u> </u> | | Ц |
| <u> </u> | 34 | <u> </u> | <u> </u> | ⊢ | _ | <u> </u> | ╙ | <u> </u> | Щ | Ц |
| <u> </u> | 35 | <u> </u> | _ | | <u> </u> | - | <u> </u> | | | Ш |
| <u> </u> | 36 37 | <u> </u> | <u> </u> | | <u> </u> | ├ | | Щ | \vdash | Н |
| | 3/ | - | | ⊢ | _ | ├- | <u> </u> | \vdash | \vdash | Н |
| | 38 | ├- | | \vdash | _ | - | <u> </u> | \vdash | | Н |
| <u> </u> | 40 | | ⊢ | \vdash | \vdash | \vdash | \vdash | H | \vdash | H |
| - | 41 | \vdash | \vdash | \vdash | \vdash | \vdash | \vdash | | \vdash | Н |
| | 42 | \vdash | \vdash | | \vdash | \vdash | \vdash | | - | \vdash |
| | 43 | | | _ | <u> </u> | _ | Т | Н | Н | \dashv |
| | 44 | Н | | \vdash | | 1 | \vdash | \vdash | | \dashv |
| | 45 | <u> </u> | | \vdash | | \vdash | \vdash | \vdash | | \dashv |
| | 46 | Т | | П | Т | | | | Н | \dashv |
| | 47 | Г | T | | _ | T | Ī | | | \Box |
| | 48 | | | | | | | | | |
| | 49 | | | | | | | | | |
| | 50 | | | | | | | | | |

| Si | ate | | | |] [| Cla | im | Date | | | | | | | | |
|---|---------|-----------------|--------------|--------------|----------|-----|-----|----------|----------|----------|--------------|----------|---|----------|----------|--|
| 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 80 81 82 83 84 85 86 87 87 88 89 90 91 92 93 94 95 96 97 98 99 99 | | | | | | | | | | | | | | | | |
| 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 80 81 82 83 84 85 86 87 87 88 89 90 91 92 93 94 95 96 97 98 99 99 | | | | | | na | gi | | | | | | | | | |
| 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 80 81 82 83 84 85 86 87 87 88 89 90 91 92 93 94 95 96 97 98 99 99 | | ı | Ι. | | | 正 | Q. | | | | | | | | ł | |
| 52 53 54 55 56 57 58 59 60 61 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 78 79 80 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 98 99 | - | 1 | <u> </u> | ┡ | | · | | | | _ | <u> </u> | <u> </u> | | ⊢ | ├ | ⊢ |
| 54 55 56 57 58 59 60 61 62 63 64 64 65 66 67 68 69 70 71 71 72 73 74 75 76 77 78 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 98 99 | + | - | ├ | | | | 51 | | | | | H | | | ┝ | \vdash |
| 54 55 56 57 58 59 60 61 62 63 64 64 65 66 67 68 69 70 71 71 72 73 74 75 76 77 78 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 98 99 | - | ╁ | ┢ | ⊢ | łŀ | | 52 | - | | - | | | | | - | |
| 55 56 57 58 59 60 61 62 63 64 65 66 66 67 68 69 70 71 72 73 74 75 75 76 77 78 78 79 80 81 82 83 84 85 86 87 88 89 90 91 91 92 93 94 95 96 97 98 99 99 99 99 99 99 | + | + | ⊢ | ⊢ | ł | | 54 | | | | - | | ┝ | | ┝ | ┢ |
| 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 98 99 | +- | + | ╁╌ | ├─ | | | 55 | \vdash | | - | | _ | | | - | - |
| 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 98 99 | +- | + | H | \vdash | 1 | | 56 | \vdash | | | | | | | ┢ | |
| 60 61 62 63 64 65 65 66 67 68 69 70 71 71 72 73 74 74 75 76 77 78 79 80 81 81 82 83 84 85 86 86 87 88 88 89 90 91 91 92 93 94 95 96 | + | ╁ | H | \vdash | | | 57 | | | | | | _ | - | \vdash | |
| 60 61 62 63 64 65 65 66 67 68 69 70 71 71 72 73 74 74 75 76 77 78 79 80 81 81 82 83 84 85 86 86 87 88 88 89 90 91 91 92 93 94 95 96 | \top | 1 | T | | | | 58 | | | | | _ | | | | |
| 60 61 62 63 64 65 65 66 67 68 69 70 71 71 72 73 74 74 75 76 77 78 79 80 81 81 82 83 84 85 86 86 87 88 88 89 90 91 91 92 93 94 95 96 | 一 | † | T | \Box | 1 1 | | 59 | | | | | | Г | \vdash | | _ |
| 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 91 92 93 94 95 96 96 97 98 99 | | | 1 | | 1 | | 60 | | | | | | | | Г | |
| 64 65 66 67 68 69 70 71 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 | T | Τ | | | 1 1 | | 61 | | | | | | | | | |
| 64 65 66 67 68 69 70 71 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 | T | Τ | Г | Г | 1 1 | | 62 | | | | | | | | | |
| 64 65 66 67 68 69 70 71 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 | \top | | | Γ | 1 [| | 63 | | | | | | | | | |
| 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 | \prod | | | | | | 64 | | | | | | | | | |
| 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 | | | L | |] [| | 65 | | | | | | | | | |
| 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 | T. | | | | | | 66 | | | | | | | | | |
| 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 | | | | 匚 |] [| | 67 | | | | | | | | | |
| 71 72 73 74 75 76 76 77 78 79 80 81 81 82 83 84 85 86 87 88 89 90 91 91 92 93 94 95 96 97 98 | | | | | | | 68 | | | | | | | | | |
| 71 72 73 74 75 76 76 77 78 79 80 81 81 82 83 84 85 86 87 88 89 90 91 91 92 93 94 95 96 97 98 | | | | | | | 69 | | | | | | | | | _ |
| 71 72 73 74 75 76 76 77 78 79 80 81 81 82 83 84 85 86 87 88 89 90 91 91 92 93 94 95 96 97 98 | | | L | | | | 70 | | | | _ | | _ | L | | |
| 74 75 76 77 78 78 79 80 81 82 83 84 85 86 87 88 89 90 91 91 92 93 94 95 96 97 98 99 | | 1 | <u> </u> | <u></u> | | | 71 | | | | | | _ | L | | |
| 74 75 76 77 78 78 79 80 81 82 83 84 85 86 87 88 89 90 91 91 92 93 94 95 96 97 98 99 | | $oxed{igspace}$ | ļ | <u> </u> | | | 72 | Ш | | | | | _ | <u> </u> | <u> </u> | _ |
| 75 76 77 78 78 79 80 81 82 83 84 85 86 87 88 89 90 91 91 92 93 94 95 96 97 98 | 4 | ┺ | | _ | | | 73 | | Щ | | | | | L., | | _ |
| 77 78 79 80 81 82 83 83 84 85 86 87 88 89 90 91 91 92 93 93 94 95 96 97 98 | - | ╄ | ┞ | ╙ | | | 74 | | | | | | | | L | |
| 77 78 79 80 81 82 83 83 84 85 86 87 88 89 90 91 91 92 93 93 94 95 96 97 98 | | ـ | - | <u> </u> | | | 75 | | | | | | | | L | _ |
| 78 79 80 81 82 83 84 85 86 87 88 89 90 91 91 92 93 93 94 95 96 97 98 | + | ╄- | <u> </u> | - | | | 76 | - | Н | | | | _ | L | ⊢ | _ |
| 80 81 82 83 84 85 86 87 88 89 90 91 91 92 93 94 95 96 97 98 99 | | ↓ | | - | | | 77 | | | | | | _ | <u> </u> | <u> </u> | _ |
| 80 81 82 83 84 85 86 87 88 89 90 91 91 92 93 94 95 96 97 98 99 | + | ╄ | <u> </u> | | ▎▕ | | 70 | _ | \vdash | | _ | | _ | H | ⊢ | |
| 81 82 83 84 85 86 87 88 89 90 91 92 93 93 94 95 96 97 98 99 | + | ╁ | ├ | | | | 90 | | | | | | _ | - | \vdash | |
| 83 84 85 86 87 88 89 90 91 92 93 93 94 95 96 97 98 99 | +- | ╁ | ├ | - | ┨ | | 94 | \vdash | - | | | | | - | \vdash | |
| 83 84 85 86 87 88 89 90 91 92 93 93 94 95 96 97 98 99 | +- | ╁ | ┢ | \vdash | l | | 82 | \vdash | - | | | | | \vdash | | |
| 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 | + | ┢ | | H | ┨ | | 83 | | - | | - | | _ | \vdash | \vdash | _ |
| 86 87 88 89 90 91 92 93 94 95 96 97 98 99 | | ╁┈ | | \vdash | | | 84 | | | | | | | | | |
| 86 87 88 89 90 91 92 93 94 95 96 97 98 99 | + | † | | \vdash | 1 | | 85 | Н | \vdash | | | | | Н | Н | М |
| 88 89 90 91 92 93 94 95 96 97 98 99 | \top | T | | \vdash | | | 86 | П | \neg | | | | | | | |
| 88 89 90 91 92 93 94 95 96 97 98 99 | \top | Τ | T | Т | | | 87 | | | \neg | | _ | | | | _ |
| 89 90 91 92 93 94 95 96 97 98 99 | | | T | | | | 88 | | | | | | | | \Box | |
| 90 91 92 93 94 95 96 97 98 99 | | 1 | 1 | | | | 89 | | | | | | | | | |
| 91 92 93 93 94 95 96 97 98 99 | | | | | | | 90 | | | | | | | | | |
| 93 94 95 96 97 98 99 | | | | Ŀ | | | 91 | | | | | | | | | |
| 94 95 96 97 98 99 | | | | | | | 92 | | | | | | | | | |
| 95 96 97 98 98 99 | | | 匚 | | | | 93 | | | | | | | | | |
| 96 97 98 98 99 | _ | | \Box | | |] | 94 | | Ц | | | | | Ш | Ш | Ш |
| 97 98 99 99 | | 1 | | L | | | 95 | |] | | | | | Щ | Ш | $oxed{\Box}$ |
| 98 | _ | 1_ | L., | L. | | | | Щ | | | | | | Щ | | Щ |
| 99 | | ↓_ | | L | | | 97 | Щ | _ | | | | | | | |
| 100 | + | ₩ | \vdash | | | | 98 | Щ | _ | \dashv | _ | _ | _ | <u> </u> | Щ | |
| 1 | +- | + | \vdash | <u> </u> | | | 99 | \vdash | \dashv | - | | | | Н | | |
| | Щ. | Ц_ | <u> </u> | <u> </u> | L | | 100 | | | | | | | ш | | |

| Claim | | | | (| Date | е | | | | |
|----------|---|----------|--------------|--------------|---------------------------|-------------------------------------|--|--|--|----------|
| Final | Original | | | | | | | | | |
| | 101 102 103 | | | | | \vdash | | Г | | П |
| | 102 | | | | | | | | | |
| | 103 | | | | | | | | | |
| | 104 | | L_ | | | <u> </u> | | | _ | Щ |
| | 104 105 106 | _ | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | Ŀ | <u> </u> | Щ |
| | 106 | _ | | <u> </u> | | | <u> </u> | <u> </u> | <u> </u> | |
| <u> </u> | 107 | | - | - | - | _ | ├ | ├ | ⊢ | Н |
| | 108 109 | | | | - | | ├ | ├ | ┢ | Н |
| | 110 | | | ┢ | H | | ┢ | ┢ | ┢ | Н |
| | 111 | | | _ | | | | | _ | |
| | 111 112 113 | | | Г | | | Г | | | |
| | 113 | | | | | | | | | |
| | 114 115 116 | | | | | | | | | |
| | 115 | | _ | | | | L | _ | <u>_</u> | Щ |
| | 116 | | L | <u> </u> | ļ | | L | | <u> </u> | Щ |
| | 117 118 119 | | <u> </u> | | _ | | ╙ | <u> </u> | Ŀ | Щ |
| | 118 | | <u> </u> | | | <u> </u> | ļ | <u> </u> | ļ | |
| | 119 | _ | <u> </u> | | - | | <u> </u> | | | |
| | 121 | | ⊢ | ⊢ | \vdash | - | \vdash | ┢ | ⊢ | Н |
| | 122 | _ | _ | \vdash | \vdash | | \vdash | ├─ | | Н |
| | 123 | | - | \vdash | 一 | | \vdash | \vdash | | Н |
| | 124 | | | _ | | | | | | |
| | 125 | | | | | | | | | |
| | 126 | | | | | | | | | |
| | 127 | | | | | | | | | |
| | 120 121 122 123 124 125 126 127 128 129 130 | | | | $ldsymbol{ldsymbol{eta}}$ | | | _ | | Ц |
| | 129 | | | _ | <u> </u> | | \vdash | _ | _ | Н |
| | 130 | | | | | | ┝ | <u> </u> | <u> </u> | Н |
| | 131 132 133 | _ | | | <u> </u> | - | ⊢ | | | Н |
| | 133 | | | | - | | | - | | Н |
| | 134 | | | H | Н | | \vdash | | | Н |
| | 134 135 | | П | Г | Г | Г | Т | Г | | Н |
| | 136 | | | | | | | | | |
| | 137 138 | | | | | | | | | |
| | 138 | | | | | | | | | |
| | 139 | | | L | | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | | Щ | L | Щ |
| | 140 | | | ļ | | ļ | | | ļ | Ш |
| | 141 142 | _ | _ | \vdash | H | H | _ | <u> </u> | H | Н |
| | 142 | | | | | | | - | | \vdash |
| | 144 | \dashv | | \vdash | Н | - | \vdash | \vdash | \vdash | Н |
| | 145 | _ | | | | H | \vdash | \vdash | \vdash | \vdash |
| | 146 | | | | \vdash | \vdash | П | <u> </u> | _ | |
| | 147 | | | | | | | | | |
| | 148 | | | | | | | | | |
| | 149 | | | | | | | | 匚 | Щ |
| | 150 | | | L | | لـــا | L | L | L | لـــا |